CONSTRUCTION OF BUILDINGS AND OTHER CIVIL WORKS AND PLAYGROUNDS IN WARD NO - 01,03 & 04 UNDER BUILDINGS/ PLAYGROUNDS / HOSPITALS HEAD IN CHIEF MINISTER NAVA NAGAROTHAN GRANTS OF YELAHANKA DIVISION (PACKAGE- 11)

Fifth and Part Bill

Quality Control Reports

BOOK NO - 05

QC ABSTRACT

NAME OF WORK: Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
	Materials					
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	2 set /1-5 cum	53.28	4	4
9	RCC(M20)	Compressive Strength(7days and 28days)	3 set /16-30 cum	22.05	6	6

10	RCC(M25)	Compressive Strength(7days and 28days)	3 set /16-30 cum	25.85	6	6
11	RMC(M25)	Compressive Strength(7days and 28days)	3 set /16-30 cum	24.17	6	6
12	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
13	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-10-11-15 **Date: 12-04-21**
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	08-04-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-04-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	–
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

• The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-10-11-15 **Date: 07-05-21**

Project Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 08-04-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 09-04-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-10-11-15** **Date: 10-04-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	23.3	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-10-11-15** **Date: 10-04-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : **CP-2021-10-11-15** **Date: 09-04-21**

Project Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 08-04-21

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test : 08-04-21

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar (mm)	Weight of the sample (kg/m)	Yield stress (N/mm2)	Tensile strength (N/mm2)	Elongation (%)	Bend test	Rebend test
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe500	25	3.472	597	712	18.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Lab ID : CP-2021-10-11-15 Date: 28-04-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	399	201	203	
2	400	202	199	
3	401	202	203	
4	402	199	203	
5	403	202	202	
6	402	200	203	
7	402	203	202	
8	401	199	199	
9	399	200	201	
10	401	203	200	
11	402	202	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
12	403	199	201	
13	401	203	201	
14	403	202	203	
15	401	200	203	
16	403	201	200	
17	400	200	200	
18	404	201	200	
19	401	203	201	
20	401	202	201	
Average of 20	401	201	201	

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2021-10-11-15 Date: 28-04-21
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	24-04-21
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	24-04-21

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BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	98	203	7958	14.716	1849.3	2045.5	Not less than 1800Kg/m^3
2	404	100	200	8080	17.831	2206.8		
3	403	99	198	7900	16.434	2080.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-10-11-15 Date: 14/07/2021

Project Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 09-07-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	07/07/2021	14/07/2021	151.35 X 149.19 X 151.69	22580	8.291	281.5	12.5	12.6
2	PCC	M15	07/07/2021	14/07/2021	149.54 X 149.80 X 150.95	22401	8.620	280.2	12.5	
3	PCC	M15	07/07/2021	14/07/2021	150.37 X 150.55 X 149.42	22639	8.436	288.0	12.7	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-10-11-15 **Date: 14/07/2021**
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	09-07-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/07/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	AE-1 PCC A.E.E	M15	07/07/2021	14/07/2021	149.71 X 150.33 X 149.53	22507	8.291	287.2	12.8	12.6
2	PCC	M15	07/07/2021	14/07/2021	150.59 X 149.49 X 151.67	22513	8.620	290.8	12.9	
3	PCC	M15	07/07/2021	14/07/2021	151.63 X 149.05 X 149.80	22600	8.436	274.1	12.1	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/08/2021

Lab ID	:	CP-2021-10-11-15
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	09-07-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC AE-1 A.E.E	M15	07/07/2021	04/08/2021	151.69 X 150.50 X 149.95	22829	8.343	400.5	17.5	17.4
2	PCC	M15	07/07/2021	04/08/2021	150.82 X 149.86 X 151.37	22601	8.338	392.7	17.4	
3	PCC	M15	07/07/2021	04/08/2021	150.79 X 150.03 X 151.51	22624	8.569	390.3	17.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/08/2021

Lab ID	:	CP-2021-10-11-15
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	10-07-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/08/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/07/2021	05/08/2021	149.45 X 151.66 X 151.67	22665	8.343	407.6	18.0	17.6
2	PCC	M15	08/07/2021	05/08/2021	150.41 X 150.69 X 150.78	22665	8.338	403.2	17.8	
3	PCC	M15	08/07/2021	05/08/2021	150.82 X 149.39 X 150.06	22531	8.569	385.1	17.1	

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* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-10-11-15 Date: 05/08/2021

Project Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 10-07-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/08/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/07/2021	05/08/2021	150.56 X 150.18 X 151.38	22610	8.343	402.8	17.8	17.6
2	PCC	M15	08/07/2021	05/08/2021	150.90 X 149.45 X 151.70	22552	8.338	395.1	17.5	
3	PCC	M15	08/07/2021	05/08/2021	149.89 X 151.45 X 150.11	22701	8.569	396.7	17.5	

A.E.E

* The results ootained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-10-11-15 Date: 30/04/2021

Project Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 26-04-21

Customer ID : FF Column Concrete (Bangla School)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	FF Column Concrete	M25	23/04/2021	30/04/2021	149.42 X 151.67 X 150.43	22663	8.375	539.1	23.8	23.1
2	FF Column Concrete	M25	23/04/2021	30/04/2021	149.12 X 150.97 X 150.19	22513	8.922	510.5	22.7	
3	FF Column Concrete	M25	23/04/2021	30/04/2021	149.79 X 149.87 X 149.02	22449	8.113	513.9	22.9	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-10-11-15 Date: 24/06/2021

Project Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 19-06-21

Customer ID : FF Column Concrete (Existing Building)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of Test : 24/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	FF Column Concrete (Existing Building)	M25	17/06/2021	24/06/2021	151.91 X 150.71 X 150.26	22894	8.375	533.9	23.3	22.5
2	FF Column Concrete (Existing Building)	M25	17/06/2021	24/06/2021	149.87 X 151.84 X 151.28	22757	8.422	501.5	22.0	
3	FF Column Concrete (Existing Building)	M25	17/06/2021	24/06/2021	150.56 X 150.86 X 151.14	22774	8.442	505.7	22.2	

A.E.E

* The results obtained are satisfactory as per standard requirements.*

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL PRO
R KARTHIK REDDY
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D : CP-2021-10-11-15 **Date: 20/05/2021**

ct Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

cy : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

mer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

of Receipt : 15-05-21

mer ID : FF lintel Concrete (Bangla School)

le Type /Size : 150X150X150 mm

le grade/Age : M25 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 20/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
FF lintel Concrete	M25	13/05/2021	20/05/2021	149.49 X 149.20 X 151.19	22304	8.375	524.4	23.5	22.6
FF lintel Concrete	M25	13/05/2021	20/05/2021	151.44 X 150.14 X 149.93	22737	8.922	503.2	22.1	
FF lintel Concrete	M25	13/05/2021	20/05/2021	150.48 X 149.36 X 149.03	22476	8.113	498.5	22.2	

A.E.E

e results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Assistant Executive Engineer

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-10-11-15 Date: 24/06/2021

Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

er's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

f Receipt : 19-06-21

ner ID : FF Staircase Concrete (Bangla School)

e Type /Size : 150X150X150 mm

e grade/Age : M25 / 7 Days Compressive Strength

nce to BIS codes : IS: 316 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 24/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
FF Staircase Concrete	M25	17/06/2021	24/06/2021	150.02 X 151.98 X 150.83	22800	8.375	536.5	23.5	23.1
FF Staircase Concrete	M25	17/06/2021	24/06/2021	149.37 X 151.45 X 149.23	22619	8.922	520.1	23.0	
FF Staircase Concrete	M25	17/06/2021	24/06/2021	150.64 X 151.98 X 150.17	22895	8.112	518.1	22.6	

A.E.E

e results obtained are satisfactory as per standard requirements.

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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

b ID : CP-2021-10-11-15 **Date: 10/06/2021**

oject Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

gency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

ustomer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

ate of Receipt : 15-05-21

ustomer ID : Chajja Concrete (Bangla School)

ample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Chajja Concrete	M20	13/05/2021	10/06/2021	149.82 X 151.46 X 149.53	22692	8.074	522.7	23.0	22.8
2	Chajja Concrete	M20	13/05/2021	10/06/2021	151.41 X 150.91 X 149.19	22849	8.369	505.5	22.1	
3	Chajja Concrete	M20	13/05/2021	10/06/2021	149.26 X 151.54 X 149.98	22619	8.719	527.9	23.3	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

b ID : CP-2021-10-11-15 Date: 10/06/2021

oject Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

gency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

ustomer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

ate of Receipt : 15-05-21

ustomer ID : Chajja Concrete (Bangla School)

ample Type /Size : 150X150X150 mm

ample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Chajja Concrete	M20	13/05/2021	10/06/2021	151.95 X 150.99 X 151.20	22943	8.074	535.6	23.3	23.1
2	Chajja Concrete	M20	13/05/2021	10/06/2021	150.69 X 151.15 X 151.49	22778	8.369	505.8	22.2	
3	Chajja Concrete	M20	13/05/2021	10/06/2021	151.38 X 149.01 X 150.45	22558	8.719	536.3	23.8	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-10-11-15 Date: 30/06/2021

t Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

y : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

mer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

of Receipt : 04-06-21

mer ID : FF Roof Concrete (Bangla School)

le Type /Size : 150X150X150 mm

le grade/Age : M25 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 30/06/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
	AE-1									
	FF Roof Concrete A.E.E	M25	02/06/2021	30/06/2021	151.92 X 151.90 X 150.83	23076	8.009	638.4	27.7	27.4
2	FF Roof Concrete	M25	02/06/2021	30/06/2021	149.83 X 149.57 X 149.56	22410	8.275	584.8	26.1	
3	FF Roof Concrete	M25	02/06/2021	30/06/2021	150.86 X 150.58 X 151.44	22717	8.816	647.6	28.5	

The results obtained are satisfactory as per standard requirements.

AE

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-10-11-15

Date: 30/06/2021

: Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

: BBMP/EE/YNK.D/W.O/260/2019-20

: 04-06-21

: FF Roof Concrete (Bangla School)

: 150X150X150 mm

: M25 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 30/06/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	FF Roof Concrete AB-1	M25	02/06/2021	30/06/2021	150.14 X 151.54 X 150.74	22752	8.009	616.2	27.1	27.4
2	FF Roof Concrete	M25	02/06/2021	30/06/2021	151.86 X 150.99 X 149.35	22929	8.275	612.3	26.7	
3	FF Roof Concrete	M25	02/06/2021	30/06/2021	150.97 X 151.09 X 149.77	22810	8.816	647.6	28.4	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

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R KARTHIK RECHAN
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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	CP-2021-10-11-15 Date: 08-06-21
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No - 01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	05-06-21
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	05-06-21
Total weight taken	:	1000 grams

A.E.E

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	115.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

AE

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Yelahanka Sub. Divison
Assistant Executive Engineer

Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	CP-2021-10-11-15 Date: 09-06-21
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No - 01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	05-06-21
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	05-06-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

A.E.E

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Yelahanka, Bangalore

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-10-11-15 Date: 09-06-21

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

A.E.E

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Authorized Signatory
Quality Manager

****End of Report****